

Analisis Of Dental Treatment Needs With The Availability Of Dental Services Provided By Kalisat Community Health Center

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Abstract

Introduction. Based on Ministry of Health Constitution Law Number 36 of 2009 concerning Health, Community Health Centers called as community health centers are first-level health services facilities that organized and promotive, preventive, curative, rehabilitative and palliative health services by prioritizing promotive and preventive in their working areas.

Aim of the study. The aim of this study was to analyze the relationship between type and the availability of dental health services provided by the KALISAT community health center with the patients need for dental services.

Methods. In this analytical observational study, all data regarding dental treatments on patient visited the dental clinic, including the number of visits and types of treatment performed at the dental clinic throughout 2023 were collected. Data on patient visits were grouped into two categories, with and without doctor action. Bivariate analysis was used in the analysis.

Results. Total of 2490 patient visits to the dental clinic of Kalisat community health center have been recorded. Number of without action treatment category higher (53.2%) in comparison with that of with action treatment category (46.8%). Within with action treatment category, the highest action performed by doctor was primary teeth extraction (20%), followed by pre-medication relief of pain (11,1%) and filling class 1 with Glass Ionomer Cement (11,2%). While extraction of permanent teeth was only performed in 3% of total patient visits.

Conclusion. Services without action category were mostly carried out at the Kalisat community health center mainly due to referral from internal clinic with community health center. Primary tooth exstraction were mostly available action treatment in dental clinic at the Kalisat Community Health Center in 2023.

Keywords: The patient's need, availability of dental treatment, Community Health Center

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I. Introduction

The healthcare structure in Indonesia is made up of private and public healthcare facilities. In the public sector, healthcare facilities are under the tree tiers of Indonesian government. In local government areas is the Community Health Center or as know as The community health center. In the private sector, they are broadly categorized into those that provide primary care, those that provide secondary care and those that provide primary and specialist care. Improving basic health services by the Indonesian government is one of the efforts to increase public access to a beter quality health services. In Indonesia, the community health centre whish is was developed by the government as to provide basic health service facilitis that is directly involve with the community.

According to the Ministry of Health Regulation number 43 of 2019, the principle of organizing the community health center is to include a healthy paradigm, regional accountability, community independence, as well as the availability of access to health services with appropriate technology and integration within health system and also a sustainability of the programs¹.

Comunity Health Centerare functional organizations that are comprehensive, integrated, evenly distributed, acceptable and affordable to the community in one work area. Implicitly, Comunity Health Centeris a technical implementing unit of the district/city Health Service activities that directly engages with the community². Community Health Centerfunctions as a center for implementing health services, a center for driving health development, and a center for community empowerment in the health sector. Preferences are part of an individual's decision-making component. Individual features of decision-making include perceptions, attitudes, and values. Yu et al. (2017) reported that patients' healthcare-seeking preferences were mainly influenced by

healthcare providers' characteristics, illness severity, and sociodemographic characteristics³.

The form of service provided by the community health center is comprehensive, namely health services that include promotive, preventive, curative, and rehabilitative aspects. All health center functions cover the work area of each health center. Health center categories are classified based on regional characteristics and implementation capabilities. Health centers have a work area and are responsible for all aspects of public health in their work area⁴. The work area of the health center includes an administrative work area, namely one or part of a sub-district, so that it is possible for there to be more than one health center in one sub-district.

The community health center is obliged to carry out technical guidance for the Health Center network and the Health Center network such as the First Health Facilities and community based health efforts in its area. is the most important part of human life, physically and mentally healthy. Health that needs to be considered in addition to general body health, also dental and oral health, because dental and oral health can affect overall body health. In other words, dental and oral health is an integral part of overall body health that cannot be separated from general body health².

The purpose of health development by community health center is to reach the the highest possible level of public health. This is in line with the mission of the Health Center. Health development carried out in community health center as the Health Center is aimed to reach a healthy work area around the working areas of community health center leading to a community that has healthy behavior that includes awareness, willingness, and ability to live healthily, a momunity that is able to access quality Health Services and able to live in a healthy environment and at the end, a community that has an optimal level of health, both individuals, families, groups, and communities.

However, the community health center is expected to provide promotive healthcare. Healthcare services can be started by providing health education to include healthy diet, good food eating behavior such as explained the food pyramid. community health center is also expected to provide primary care such as dental health education programs. Cleaning plaque and teeth brushing techniques should also be delivered actively to the community. Regular visits to the dentist every six months should also be explained⁴.

II. Method

This is an analytical observational study. This research was conducted in Kalisat Community Health Center, Jember, East Java. Data were collected in May 2024. This study used primary data sources obtained directly from the Community Health Center. This study uses dental care data at the Kalisat Health Center in 2023. Data on patient visits to the dental clinic are grouped into two categories of care, (1) without action and (2) with action. Without action consists of 3 sub-categories (a) Examination and consultation only, (b) Prescription only, (c) consulted to the hospital, while with action consists of 5 sub-categories (a) premedication (b) glass ionomer fillings (c) Extraction of deciduous teeth (d) extraction of permanent teeth and (e) cleaning of tartar. Bivariate analysis was used to determine the relationship between the type of care and the availability of services at the Kalisat community health center.

III. Results

Results in this study showed data associated with number of patient visited the dental klinik during 2023 and the two categories of action treatment. The category of *Without action treatment* is to include oral examination and consultation only, doctor's prescription only and referral to other health centre. While the category of with doctor action treatment is to include primary and permanent tooth extraction, GIC filling, dental scaling procedure and premedication as shown in table 1 and table 2

Table 1. Dental care data at Kalisat community health center in 2023 for one working day in 2023 (260 days) for without action category

No	Action Treatment	Sum	(%)
1	Oral examination and consultation only	865	34.7
2	Doctor's prescription only	425	17.0
3	Refferal to other center	36	1.5
	Sum of visits	1326	53.2

Table 2. Dental care data at Kalisat community health center in 2023 for one working day in 2023 (260 days) for with action category

No	Action Treatment	Sum	%
1	Primary tooth extraction	515	20.7
2	Permanent tooth exstraction	75	3.0
3	GIC Filling	278	11.2
4	Scalling	22	0.9
5	Pre-medication	274	11.1

6	Sum of visit	1164	46.8
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Based on the 2023 Kalisat Health Center morbidity data, it shows that the highest number of visits was on without doctor's action category (53..2 %) while other category was only reach 46.8% out of the total 2490 visits. It means that most patient were given only oral examanation and consultation or given doctor's prescription or refferal only.

The highest action sequence of all dental care action is as follow: oral examanation and consultation only reach 865 (34.7%) actions, then followed by primary tooth extraction with 515 (20.7%) action, then doctor's prescription only with 425 (17%) actions, followed by GIC filling treatment with 278 (11.2%) and Pre-medication (11.1%). While permanent tooth extraction and scalling reach the lowest number of action.

IV. Discussion

The goal of health development by the community health center is to increase awareness, willingness and ability to live healthily for everyone who lives in the Health Center's work area in order to achieve the highest level of health in order to realize a Healthy Indonesia. This is in accordance with the Indonesian Minister of Health Regulation Number 43 of 2019 in Article 4 paragraph (1) which states that the Health Center has the task of implementing health policies to achieve health development goals in its work area¹.

The community health center has the following functions: a. Organizing health-oriented development services; b. Organizing community empowerment; c. Organizing first-level health services. According to the Regulation of the Minister of Health Number 75 of 2014 concerning Community Health Centers, there are 3 (three) functions of the Community Health Center, namely: a center for driving health-oriented development, which means that the Community Health Center always strives to drive and monitor the implementation of cross-sector development including by the community and the business world in its working area⁵.

Dental clinic in community health center are one of the health services that are widely used by the community. Basically, dental treatment in community health centers focuses on three aspects, namely dental and oral health examinations, treatment, and basic medical procedures such as fillings and tooth extractions¹.

From the calculation of the overall treatment actions at the Kalisat Health Center, it was found that the most treatments action performed were oral examinations and consultations. It was suggested that majority need of treatment was no available in the Kalisat Health Center. However, the number of referral action was not support that argument. Simple extraction procedure such as extraction of primary teeth as well as GIC fillings which is usually applied in pediatric patient and also dental scaling action for adult patients occupied most of the action treatment performed the doctor.

That was possibly due to the fact that services in the form of examinations and consultations are basic actions that must be carried out by the dental clinic at a health center. One of them is through Community-Based Health Efforts, namely government policy through Law No. 36 of 2009 concerning health⁶, which states that dental and oral health services are part of what must be done. It was also observed that internal referral system played a significant role in determining the high number of visit in without action treatment shown in table 1. This finding is supported by the Village Community Dental Health Effort Program conducted by Kalisat Health Center which perform a routine every year delivering counseling activity, in dental health education and oral examinations and dental care for pregnant women. The demand for health is highly influential on the utilization of health services. Utilizing health services is a behavior or action whereby individuals seek health services. Utilizing health services is essential to society and aims to assist in determining health status⁷.

V. Conclusion

Services without action category were mostly carried out at the Kalisat community health center mainly due to referral from internal clinic with community health center. Based on the data obtained from all treatment actions at the health center, the results showed that the most common treatments carried out were examinations and consultations, followed by second place was extraction of the primary teeth.

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